

Install Effluent Filter at Septic Tank Outlet

**Effluent Sewer** 

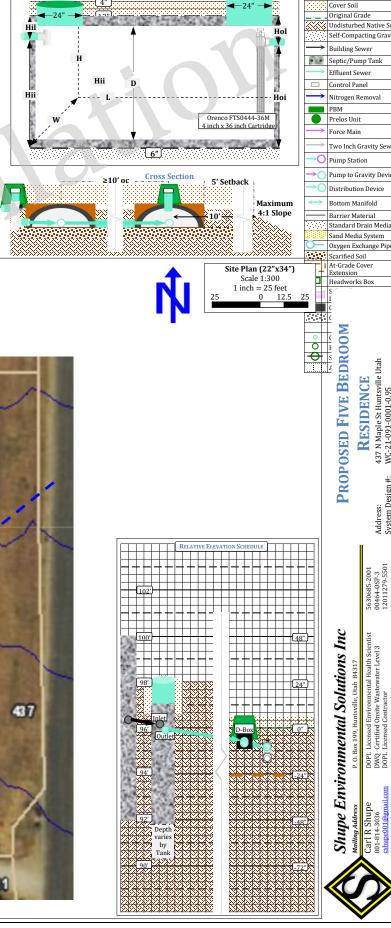


Tank

L W H Hii Hil Hoi Hol Drop D WallFloot Lid gpi ES

105 105 72 61.0 11 59 13 2.0 72 0.3 0.3 0.3 25.0 288

1500 gallon | 177 | 62 | 51 | 43 | 8 | 40 | 11 | 3.0 | 51 | 0.5 | 0.5 | 0.5 | 37.5 | 231



Septic Tank

KEY

Replacement Area

Horizontal Setbacks

\_ \_ Potable Water

# Feasibility and Plan Review ABSORPTION TRENCH 437 N Maple St Huntsville Utah System Design #: WC-21-091-0001-0.95 Design Date: 2021 Mar 6 Waiver Proposal Approval Est Hydraulic Flow Rate (HFR) 750 gpd

This design is to show that a five bedroom home may be supported on this property with a primary and reserve absorption system.

Single Family Dwelling five bedrooms. finished basement ten people maximum sustained use Feasibility Assessment Record

Hydraulic Loading Rate (HLR)  $0.9\left(\frac{gpd}{G^2}\right)$ Soil Profile see WMHD Max Absorption Trench Depth 18" Maximum Ground Water Design per WMHD Absorption Area Max Ground Slope ≤10%

Flood Plain Zones Flood Plain Zone See Map FEMA Designation Zone X Area of Minimal Flood Hazard 500 year

**KEY** Flood Plain Zone Absorption Area Groundwater Protection Zone 2 Non-Public Water Supply 100 foot Groundwater Protection Zone Soil Test Pit **Plan Review and Permitting** 

Wastewater Type Domestic Water Supply Soil Pit Location see WMHD Lot Size and Dimensions See Site Plan





The field verified wells are shown on the Site Plan

## **Design Requirements**

## **Sewer & Septic Tank Details**

**Inlet Riser** 

PRTA24, Tank Adapter PRTA24BDKIT, Bolt Down Kit or Cast-In FLD24G, DuraFiber™ Access Lid 24" RR24xx As needed

Ultra-Rib™ Access Riser

**Outlet Riser** 

Orenco: PRTA24, Tank Adapter 24" PRTA24BDKIT, Bolt Down Kit or Cast-In FLD24G, DuraFiber™ Access Lid 24" RR24xx As needed Ultra-Rib™ Access Riser

**Effluent Filter Required** 

Orenco FTS0444-36, 4" x 36" Cartridge or better



### **Absorption Trench System Details**

**Absorption Trenches** 

Sizing Criteria Effective Absorption Area ( $E_{AA}$ ) =  $\frac{HFR}{HFR}$ = 750 gpd / 0.9  $\left(\frac{gpd}{ft^2}\right)$  = 833 ft<sup>2</sup> Reduction Factor (None)  $E_{AA} \times RF = 833 \text{ ft}^2 \times 1.0 =$ 833 ft<sup>2</sup> Width of Media  $(W_M) =$ 3 ft Length of Media (L<sub>M</sub>) =  $\frac{EAA}{W_M}$ = 833 ft<sup>2</sup> / 3 ft= 277 ft

**Chambered Trenches** Sizing Criteria Reduction Factor (Chamber)  $L_{\rm M}$  x RF = 277 ft x 0.7 = ≥10 ft oc

Disclaimer Due to the variability of: site soils; wastewater; the personnel that conduct feasibility studies and review plans; building construction; and, OWS system installation, this design is not intended to be a guarantee or warranty, expressed or implied, regarding the future adequacy, performance, or condition of any installed system. The designer liability is limited to the value paid for this plan.

The drawings, plans, models, designs, specifications, reports, photographs, computer software, surveys, calculations and other data, including computer print-outs, contained in this Plan are the property of the designer. The Plan is made available for 437 N Maple St Huntsville Utah. The Plan may not be copied reproduced, or distributed in any way or for any purpose without the consent of the

The designer reserves the right to revise this document and to make changes in content as needed or as required by the local regulatory authority without obligation on the part of the designer to provide notification of such revision or change. The installer shall confirm they have the most current revision of this

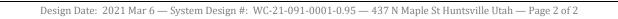
The designer is not responsible for the results of any changes to this plan without approval by the designer and the local health department. Any deviations shall be coordinated with the designer and local health department prior to proceeding with the related work concerning the deviation.

This design assumes installer experience or competency with the system shown herein. The designer shall not be held liable for any errors, omissions, or deficiencies in any form by the installer.

The installer shall read the notes and details in this plan.

All third party information provided including any plot plans, site plans, geographic maps, health department requirements and statements, is "as is" without any guarantee, representation, condition or warranty of any kind, either express, implied, or statutory.

Any location of utilities shown on this plan are approximate. The installer shall call the Blue Stakes utility locating company, 1-800-662-4111, for field location marking before



t for installation